

CLAIMS

1. A laminated film comprising at least two film layers, wherein at least one of the film layers contains a thermoplastic resin composition and is biaxially oriented and at least another one of the film layers includes a network structure.

2. The laminated film according to Claim 1, wherein the biaxially oriented film layers containing the thermoplastic resin composition are placed on both faces of the network structure-including film layer.

3. The laminated film according to Claim 1, wherein the network structure-including film layer contains a non-ductile resin composition.

4. The laminated film according to Claim 1, wherein the network structure-including film layer contains a liquid-crystalline polymer.

5. The laminated film according to Claim 4, wherein the network structure-including film layer further contains non-liquid-crystalline polyester.

6. The laminated film according to Claim 5, wherein the non-liquid-crystalline polyester is polyethylene terephthalate, polyethylene naphthalate, or a derivative of one of these polyesters.

7. The laminated film according to Claim 4, wherein the

content of the liquid crystal polymer in the network structure-including film layer is 20 to 90 percent by weight.

8. The laminated film according to Claim 4, wherein the content of the liquid-crystalline polymer in the laminated film is three to 30 percent by weight.

9. The laminated film according to Claim 1, wherein the network structure-including film layer has a thickness equal to 1% to 90% of the thickness of the laminated film.

10. The laminated film according to Claim 9, wherein the network structure-including film layer has a thickness equal to 10% to 80% of the thickness of the laminated film.

11. The laminated film according to Claim 1, wherein the thermoplastic resin composition contained in the biaxially oriented film layers contains at least one selected from the group consisting of polyester, polyphenylene sulfide, polyether imide, polycarbonate, polyether ketone, polyethersulfone, polysulfone, and polylactic acid.

12. The laminated film according to Claim 1, wherein the longitudinal Young's modulus and transverse Young's modulus thereof are 2 to 7 GPa.

13. The laminated film according to Claim 1, wherein the longitudinal heat shrinkage and transverse heat shrinkage thereof are 0% to 2% at 150°C.

14. The laminated film according to Claim 1, wherein the longitudinal thermal expansion coefficient and transverse

thermal expansion coefficient thereof are 3 to 45 ppm/°C.

15. A laminated film with a density of 0.2 to 1.2, comprising at least two film layers, wherein at least one of the film layers contains a thermoplastic resin composition and is biaxially oriented and at least another one of the film layers contains a non-ductile resin composition.

16. The laminated film according to Claim 15, wherein the biaxially oriented film layers are placed on both faces of the non-ductile resin composition-containing film layer.

17. The laminated film according to Claim 15, wherein the non-ductile resin composition contains a liquid-crystalline polymer.

18. The laminated film according to Claim 17, wherein the non-ductile resin composition further contains non-liquid-crystalline polyester.

19. The laminated film according to Claim 18, wherein the non-liquid-crystalline polyester is polyethylene terephthalate, polyethylene naphthalate, or a derivative of one of these polyesters.

20. The laminated film according to Claim 17, wherein the content of the liquid-crystalline polymer in the non-ductile resin composition is 20 to 90 percent by weight.

21. The laminated film according to Claim 17, wherein the content of the liquid-crystalline polymer in the laminated film is three to 30 percent by weight.

22. The laminated film according to Claim 15, wherein the non-ductile resin composition-containing film layer has a thickness equal to 1% to 90% of the thickness of the laminated film.

23. The laminated film according to Claim 22, wherein the non-ductile resin composition-containing film layer has a thickness equal to 10% to 80% of the thickness of the laminated film.

24. The laminated film according to Claim 15, wherein the thermoplastic resin composition contained in the biaxially oriented film layers contains at least one selected from the group consisting of polyester, polyphenylene sulfide, polyether imide, polycarbonate, polyether ketone, polyethersulfone, polysulfone, and polylactic acid.

25. The laminated film according to Claim 15, wherein the longitudinal Young's modulus and transverse Young's modulus thereof are 2 to 7 GPa.

26. The laminated film according to Claim 15, wherein the longitudinal heat shrinkage and transverse heat shrinkage thereof are 0% to 2% at 150°C.

27. The laminated film according to Claim 15, wherein the longitudinal thermal expansion coefficient and transverse thermal expansion coefficient thereof are 3 to 45 ppm/°C.

28. A method for producing a laminated film, comprising a step of coextruding at least two resin compositions, one of

the compositions being thermoplastic, another one being non-ductile, and a step of forming cracks in a layer containing the non-ductile resin composition by biaxial stretching.

29. The method according to Claim 28, wherein the thermoplastic resin composition is contained in layers placed on both faces of the non-ductile resin composition-containing layer.

30. A circuit material comprising the laminated film according to Claim 1 or 15.

31. A release material comprising the laminated film according to Claim 1 or 15.

32. An electrically insulating material comprising the laminated film according to Claim 1 or 15.